

Prof. Dr. Vlatka Rajčić (Croatia)

University of Zagreb, Faculty of Civil Engineering
Zagreb, Croatia

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COST FP1402, MC Member, WG4 Member



Personal

Years of experience in relevant field: 22
Expertise: composite structures, robustness of timber structures, assessment and evaluation of material properties by NDTs
Degree: PhD (10.07.2000)

Organisation

Structural Department/Chair for Timber Structures
(www.unizag.grad.hr)
Focus: theoretical and practical research / innovation, design of structures, education / training and revision of timber design projects, timber structures
Facilities: Multi-purpose universal testing machines Z600 and ACTUATOR 600/250, ZWICK for static and dynamic testing. Portable devices: ultrasound device, spectral analyser, resistograph, moisturemeters, etc.

No. of staff	PhD students	MSc/year
5	4	55

Research projects

- Experimental evaluation of composite timber-lightweight concrete (EPS) structures behavior", Faculty of Civil Engineering University of Zagreb, financed by Ministry of Science and Technology RCroatia, coordinator Vlatka Rajčić, 1998.-2000.
- Composite structural systems timber-structural glass and timber-steel" (Nr. 082-1491823-1463) Faculty of Civil Engineering University of Zagreb, financed by Ministry of Science and Technology RCroatia, coordinator prof.dr.sc. Vlatka Rajčić,(people involved: 2007-2012
- CLIMATE FOR CULTURE Damage risk assessment, macroeconomic impact and mitigation strategies for sustainable preservation of cultural heritage in the times of climate change FP7 project (2009-2014), coordinator Fraunhofer Germany (Johanna Leissner and Ralf Kilian), www.climateforculture.eu
- Bilateral project: - Seismic resistance of composite timber-structural glass structural systems with optimal level of energy dissipation" Faculty of Civil Engineering Zagreb, Croatia and Institute for seismic engineering, Skopje, Macedonia. Bilateral project Croatia-Macedonia, 2010- 2013, coordinators prof. Vlatka Rajčić and prof. Lidija Krstevska
- The behavior and the possibility of rehabilitation of wooden frames with structural glass infill in earthquakes , financed by Ministry of Science and Technology RCroatia (2014-2015)

Publications

1. Pavković, Krunoslav; Rajčić, Vlatka; Haiman, Miljenko. Large diameter fastener in locally reinforced and non-reinforced timber loaded perpendicular to grain. // Engineering structures. 74 (2014) ; 256-265 (scientific paper).
2. Steiger, René; Serrano, Erik LU; Stepinac, Mislav; Rajčić, Vlatka; O'Neill, Caoimhe; McPolin, Daniel; Widmann, Robert. Strengthening of timber structures with glued-in rods. // Construction and building materials. 1 (2015) , 1; 1-1 (scientific paper)
3. Stepinac, Mislav; Rajčić, Vlatka; Barbalić Jure. Influence of long term load on timber-concrete composite systems. // Građevinar, Journal of the Croatian Association of Civil Engineers. 67 (2015) , 3/2015; 235-246 (scientific review)
4. Antolinca, David; Rajčić, Vlatka; Žarnić, Roko: Analysis of hysteretic response of glass infilled wooden frames. // Journal of Civil Engineering and Management. 20 (2014) , 4; 600-608
5. Kirkegaard, Poul Henning; Sørensen, John Dalsgaard; Čizmar, Dean; Rajčić, Vlatka: System reliability of timber structures with ductile behaviour. // Engineering structures. 33 (2011) , 11; 3093-3098
6. Krunoslav Pavković, Vlatka Rajčić, Dean Čizmar: PARAMETRIC ANALYSIS OF LARGE DIAMETER MECHANICAL FASTENER IN REINFORCED GLULAM, Technical Gazette Vol 21, 4(2014), 843-852
7. Rajčić, Vlatka; Bjelanović, Adriana; Rak, Mladenko: Bearing capacity of glued in steel rods in oak elements// Građevinar, Journal of the Croatian Association of Civil Engineers. Vol 56 (2004), 3; 155-161
8. Krstevska, Lidija; Tashkov, Ljubče; Rajčić, Vlatka; Žarnić, Roko: Shaking Table Test of Innovative Composite Panel Composed of Glued Laminated Wood and Bearing Glass// Proceedings of the 15th World

